

## CLAIMS

- 5 1. A recording sheet for ink jet printing comprising a support having coated onto said support at least one ink receiving layer containing binders and a porous inorganic oxide, said recording sheet being characterised in that it contains an aliphatic hydroxycarboxylic acid with more than 2 C atoms.
- 10 2. A recording sheet according to claim 1 characterised in that the aliphatic hydroxycarboxylic acid with more than 2 C atoms is a water soluble monohydroxymonocarboxylic acid.
- 15 3. A recording sheet according to claim 2 characterised in that the water soluble monohydroxymonocarboxylic acid is 2-hydroxypropionic acid.
- 20 4. A recording sheet according to claims 1 to 3 characterised in that the porous inorganic oxide is colloidal aluminium oxide or colloidal aluminium oxide/hydroxide.
- 25 5. A recording sheet according to claims 1 to 3 characterised in that the porous inorganic oxide is colloidal  $\gamma\text{-Al}_2\text{O}_3$ .
- 30 6. A recording sheet according to claims 1 to 3 characterised in that the porous inorganic oxide is pseudo-bohemite.
- 35 7. A recording sheet according to claims 1 to 3 characterised in that the porous inorganic oxide is  $\text{AlOOH}$  or pseudo-bohemite comprising at least one element of the rare earth metal series of the periodic system of the elements with atomic numbers 57 to 71, preferably in an amount of from 0.04 to 4.2 mole percent relative to  $\text{Al}_2\text{O}_3$ .
8. A recording sheet according to claims 6 and 7 characterised in that the pseudo-bohemite is prepared by hydrolysis of aluminium isopropoxide in the presence of the hydroxycarboxylic acid.
9. A recording sheet according to claims 1 to 8 characterised in that the binders are gelatine, polyvinyl alcohol or polyvinyl pyrrolidone or mixtures thereof.

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